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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/770,088	02/02/2004	Chin-Chih Chiang	OEP2003-01	9267
<sup>26709</sup> SHIHONG NIC	7590 05/29/2007	,	EXAM	INER
4931 ARROYO LINDO AVE.			AHMED, HASAN SYED	
SAN DIEGO, O	CA 92117		ART UNIT PAPER NUMBE	
			1615	
			MAIL DATE	DELIVERY MODE
			05/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/770,088	CHIANG, CHIN-CHIH					
Office Action Summary	Examiner	Art Unit					
	Hasan S. Ahmed	1615					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on <u>11 April 2007</u> .							
,-							
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-4,6,9 and 10</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
, —	6)⊠ Claim(s) <u>1-4,6,9 and 10</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119		•					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attach m ont(o)							
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date. 20070515							
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application 6) Other:							

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## **DETAILED ACTION**

Receipt is acknowledged of applicant's request for continued examination, filed on 11 April 2007

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11 April 2007 has been entered.

Response to Arguments

Applicant's arguments have been considered but are moot in view of the new ground of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-4, 6, 9, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ebert, et. al. (U.S. 2003/0147926) in view of Oda, et. al. (U.S. 5,725,874).

Ebert, et. al. teach a topical gel formulation of oxybutynin as well as a method for treating bladder disorders using said topical gel (see above).

The disclosed formulation is comprised of 2.2 wt. % oxybutynin chloride salt; 58.8 wt. % of a short chain alcohol; and 2.0 wt % of a gelling agent (see example 10).

Although the Ebert, et. al. reference does not provide an example of a formulation with all excipients claimed by applicant, it teaches every excipient claimed, with the exception of diisopropanolamine:

- the short chain alcohols of instant claims 1 and 2, i.e., ethanol and isopropanol (see paragraph 0122);
- the gelling agents of instant claims 1, 3 and 4, i.e., CARBOPOL, CARBOMER and PEMULEN (see paragraph 0116);
- the permeation enhancers of instant claims 1 and 6, i.e., inter alia, isopropyl
  myristate (see paragraph 0134);
- the moisturizer of instant claims 1 and 9, i.e., propylene glycol (see paragraph 0127); and
- the method for treating bladder disorders of instant claim 10 (see paragraph 0017).

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Ebert, et. al. explain that combining the disclosed agents into a topical gel formulation is beneficial because it mitigates the adverse drug effects associated with oxybutynin therapy (paragraphs 0006 and 0007).

The Ebert, et. al. reference differs from the instant application in that it does not disclose the disopropanolamine of instant claim 1.

Oda, et. al. teach a gel formulation comprising oxybutynin (see col. 3, line 21) and diisopropanolamine (see col. 7, line 46).

Oda, et. al. explain that the diisopropanolamine is used as a pH neutralizing agent (see col. 7, line 46).

It would have been obvious to a person having ordinary skill in the art at the time of the invention to make a topical gel formulation of oxybutynin (comprising diisopropanolamine, a short chain alcohol, a gelling agent a permeation enhancer and a moisturizer) to treat bladder disorders, as taught by Ebert, et. al, in view of Oda, et. al. Motivation would come from mitigation of adverse drug effects associated with oxybutynin therapy, as taught by Ebert, et. al., as discussed above. Those of ordinary skill in the art would expect similar properties from the instant formulation, given the teachings of Ebert, et. al. and Oda, et. al.

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## Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hasan S. Ahmed whose telephone number is 571-272-4792. The examiner can normally be reached on 9am - 5:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael P. Woodward can be reached on 571-272-8373. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TC-1600